

Title (en)  
TURBOFAN ENGINE WITH GEARED ARCHITECTURE AND LPC AIRFOILS

Title (de)  
TURBOLUFTSTRAHLTRIEBWERK MIT GETRIEBEFAN UND NIEDERDRUCKVERDICHTERSCHAUFELN

Title (fr)  
MOTEUR À DOUBLE FLUX À ENGRENAGE AVEC AUBES DE COMPRESSEUR BASSE PRESSION

Publication  
**EP 3108122 B1 20230920 (EN)**

Application  
**EP 15793425 A 20150217**

Priority  
• US 201461941707 P 20140219  
• US 2015016091 W 20150217

Abstract (en)  
[origin: WO2015175056A2] A compressor airfoil of a turbine engine having a geared architecture includes pressure and suction sides extending in a radial direction from a 0% span position to a 100% span position. The airfoil has a relationship between leading edge sweep angle and span position defined by a curve in which the leading edge sweep angle is positive at 0% span and crosses to a negative leading edge sweep angle at a span position less than 80% span. A negative sweep angle is in the forward direction, and a positive sweep angle is in the rearward direction.

IPC 8 full level  
**F01D 5/14** (2006.01); **F04D 29/38** (2006.01)

CPC (source: EP US)  
**F01D 5/141** (2013.01 - EP US); **F02C 3/067** (2013.01 - US); **F04D 29/324** (2013.01 - US); **F04D 29/384** (2013.01 - US);  
**F04D 29/544** (2013.01 - EP US); **F04D 29/563** (2013.01 - EP US); **F05D 2220/32** (2013.01 - US); **F05D 2220/3217** (2013.01 - EP US);  
**F05D 2240/121** (2013.01 - EP US); **F05D 2240/303** (2013.01 - US); **Y02T 50/60** (2013.01 - EP US)

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**WO 2015175056 A2 20151119; WO 2015175056 A3 20160114**; EP 3108122 A2 20161228; EP 3108122 A4 20170301;  
EP 3108122 B1 20230920; US 10465702 B2 20191105; US 11041507 B2 20210622; US 2016341213 A1 20161124;  
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**US 2015016091 W 20150217**; EP 15793425 A 20150217; US 201515114745 A 20150217; US 201916591046 A 20191002